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June 2001

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Routers must perform packet classification at high speeds to efficiently and diffserv. Classification can be based on an arbitrary number of field classification quickly on an arbitrary ...

Also published in:

 June 2001 **SIGMETRICS Performance Evaluation Review** Volume 29 Issue 1

2 [A chipset level network backdoor: bypassing host-based firewall & I](#)
[Sherri Sparks, Shawn Embleton, Cliff C. Zou](#)

March 2009

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Chipsets refer to a set of specialized chips on a computer's motherboard paper we present a proof of concept chipset level rootkit/network backdoor interface card hardware based on ...

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3 [Virtualization technologies in transnational DG](#)
[Maurício Tsugawa, Andréa Matsunaga, José A. B. Fortes](#)

May 2006

dg.o '06: Proceedings of the 2006 international conference on

Publisher: ACM


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Naïve deployments of digital government (DG) systems across organiza

face severe technical, sociopolitical and economical barriers. Some of the independently created IT infrastructures ...

4 [Design of a high-performance ATM firewall](#)

 [Jun Xu, Mukesh Singhal](#)

August 1999 **Transactions on Information and System Security (TISS)**

Publisher: ACM  [Request Permissions](#)


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A router-based packet-filtering firewall is an effective way of protecting unauthorized access. However, it will not work efficiently in an ATM network termination of end-to-end ATM connections at a ...


Keywords: TCP/IP, asynchronous transfer mode, firewall, packet filtering

5 [Automated tools to implement and test Internet systems in reconfiguration](#)

 [John W. Lockwood, Chris Neely, Chris Zuver, Dave Lim](#)

July 2003 **SIGCOMM Computer Communication Review**, Volume 33 Issue 1

Publisher: ACM

Full text available:  Pdf (1.01 MB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 44, Downloads

Tools have been developed to automatically integrate and test network hardware. These tools dynamically generate circuits for Field Programmable hardware-accelerated modules has been developed ...

Keywords: Field Programmable Gate Array (FPGA), Internet, firewall, prevention, networks, reconfigurable hardware, tools

6 [Designing a Safe Network Using Firewalls](#)

[Paul Wouters](#)

August 1997 **Linux Journal**, Volume 1997 Issue 40es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  Html (26.47 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 76, Downloads

It is by no means necessary to purchase specialized firewall hardware running on a \$400 386 PC-- provides as much protection as most commercial flexibility and ease

7 [Simulating Highly Dependable Applications in a Distributed Computing](#)

[Yinong Chen, Zhongshi He](#)

March 2003 **ANSS '03: Proceedings of the 36th annual symposium on Simulation**

Publisher: IEEE Computer Society

Full text available:  Pdf (151.17 KB) Additional Information: [full citation](#), [abstract](#)

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The aims of the research are to investigate techniques that support the development of dependable applications in a distributed system environment. Techniques include task allocation, load balancing, fault-tolerant computing ...

Keywords: Distributed system, task allocation, load balancing, firewall,

8 [Shangri-La: achieving high performance from compiled network application programming](#)



Michael K. Chen, Xiao Feng Li, Ruiqi Lian, Jason H. Lin, Lixia Liu, Tao Liu, Feng June 2005 **PLDI '05**: Proceedings of the 2005 ACM SIGPLAN conference on programming language design and implementation

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (480.93 KB)

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Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 93, Downloads

Programming network processors is challenging. To sustain high line rates, we need extremely tight memory access and instruction budgets. Achieving desired performance required hand-coded assembly. Researchers have recently ...

Keywords: chip multiprocessors, dataflow programming, network processor partitioning, throughput-oriented computing

Also published in:

June 2005 **SIGPLAN Notices** Volume 40 Issue 6

9 [Scalable packet classification](#)

Florin Baboescu, George Varghese

February 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13

Publisher: IEEE Press

Full text available: [Pdf](#) (501.73 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 82, Downloads

Packet classification is important for applications such as firewalls, intrusion detection services. Existing algorithms for packet classification reported in the literature use space as filter databases ...

10 [Scalable packet classification](#)



Florin Baboescu, George Varghese

August 2001 **SIGCOMM '01**: Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications

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Packet classification is important for applications such as firewalls, intrusion detection services. Existing algorithms for packet classification reported in the literature use space as filter databases ...


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October 2001 **SIGCOMM Computer Communication Review** Volume 31 Issue

11 [A student-managed networking laboratory](#)

 [Paul B. Albee, Laura A. Campbell, Martin A. Murray, Christopher M. Tongen](#)
October 2007 **SIGITE '07**: Proceedings of the 8th ACM SIGITE conference

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A major component of undergraduate Information Technology education environment. Attempting to provide an environment that is realistic, honest university setting. The major problems ...

Keywords: lab management, networking, student involvement, teaching

12 [Fast and scalable packet classification using perfect hash functions](#)

 [Viktor Puš, Jan Korenek](#)
February 2009 **FPGA '09**: Proceeding of the ACM/SIGDA international symposium on FPGAs and related devices

Publisher: ACM

Full text available:  Pdf (567.51 KB)


[Additional Information: full citation, abstract](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 203, Downloads

Packet classification is an important operation for applications such as routers and network systems. Many algorithms and hardware architectures for packet classification of them can compete with the ...

Keywords: fpga, packet classification, sram

13 [A multi-part lab exercise for analyzing the effect of peer-to-peer software](#)

 [Brandon Wagner, Stephen Renshaw, Kent Broadbent](#)
October 2007 **SIGITE '07**: Proceedings of the 8th ACM SIGITE conference

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (288.80 KB)

[Additional Information: full citation, abstract](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 42, Downloads

Over the past few years, university campuses have dealt with peer-to-peer network. While it is easy to see the bandwidth consumption this software and software have not been adequately studied ...

Keywords: campus network, network traffic monitoring, networking lab

14 [Using Web Services in TMN environment](#)

[Lin Chen, Minglu Li](#)

March 2005 **BSN '05**: Proceedings of the IEEE BSN05 international workshop on Business Systems and Networks

Publisher: IEEE Press


Full text available:  Pdf (138.61 KB)

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Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 20, Download

One great challenge that equipment vendors, service providers and neti manage and integrate the complicated telecommunication hardware, so manner. The integration of TMN and CORBA has ...

15 [Is your resNet support boat sinking?: try outsourcing!](#)

 [Brien G. Muller, Mark A. Bauer](#)

November 2005 **SI GUCCS '05: Proceedings of the 33rd annual ACM SIGUC**

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Full text available:  Pdf (147.51 KB)


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Skidmore is a small liberal arts College with 1,800 residential students. computer and some have more than one, so support is becoming an evi worms and spyware running rampant in ...

Keywords: outsource, resNet, students, support

16 [Architecting a secure internet](#)

 [Saikat Guha, Paul Francis](#)

October 2005 **SOSP '05: Proceedings of the twentieth ACM symposium on**

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Full text available:  Pdf (180.41 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 147, Downl


The Internet is not secure due to its design goals being at odds with the Internet strives to allow any host to communicate with any other host, advocates limiting host connectivity to ...

17 [Hybrid intelligent systems for network security](#)

 [J. Lane Thames, Randal Abler, Ashraf Saad](#)

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Full text available:  Pdf (89.08 KB)


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Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 127, Downl

Society has grown to rely on Internet services, and the number of Inter more and more users become connected to the network, the window of their damage becomes very great and lucrative. ...

Keywords: Bayesian learning, hybrid-intelligent systems, intrusion det

18 [A dynamic data mining technique for intrusion detection systems](#)

 [Bruce D. Caulkins, Joohan Lee, Morgan Wang](#)

March 2005 **ACM-SE 43: Proceedings of the 43rd annual Southeast r**
Volume 2


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Full text available:  Pdf (540.76 KB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 33, Downloads (12 Months): 209, Downl

In today's interconnected world of computer networks, there exists a ne
transactions through the use of firewalls, Intrusion Detection Systems (
and other hardware and software solutions. ...

Keywords: anomaly detection, data mining, data modeling, decision tr
signature detection


19 [Context-agile encryption for high speed communication networks](#)


 [Lyndon G. Pierson](#), [Edward L. Witzke](#), [Mark O. Bean](#), [Gerry J. Trombley](#)
January 1999 **SIGCOMM Computer Communication Review** , Volume 29 Is
Publisher: ACM

Full text available:  Pdf (1.43 MB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 15, Downloa

Different applications have different security requirements for data priv
authentication. Encryption is one technique that addresses these requir
designed for use in high-speed communications networks, ...

20 [Packet classification using tuple space search](#)

 [V. Srinivasan](#), [S. Suri](#), [G. Varghese](#)
August 1999 **SIGCOMM '99: Proceedings of the conference on Applications
protocols for computer communication**

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